



Glenn Research Center



Fluids and Combustion Facility Concept

- ◆ Payload planned for the International Space Station
 - ◆ Support the study of fluid physics and combustion in a long-duration, microgravity environment
 - ◆ System of on-orbit and ground hardware, software, operations, and plans
 - ◆ Designed to accommodate a wide variety of investigations
 - ◆ Majority of on-orbit hardware will be reused
- ◆ Goals of the facility
 - At least eighty percent of new experiments can be performed in it
 - Modular to allow upgrades with new hardware and software
 - Perform between 5 and 15 combustion experiments per year over 10 year lifetime
 - Decrease the cost and increase throughput relative to previous ways
 - Develop only a small amount of hardware and software for each investigation